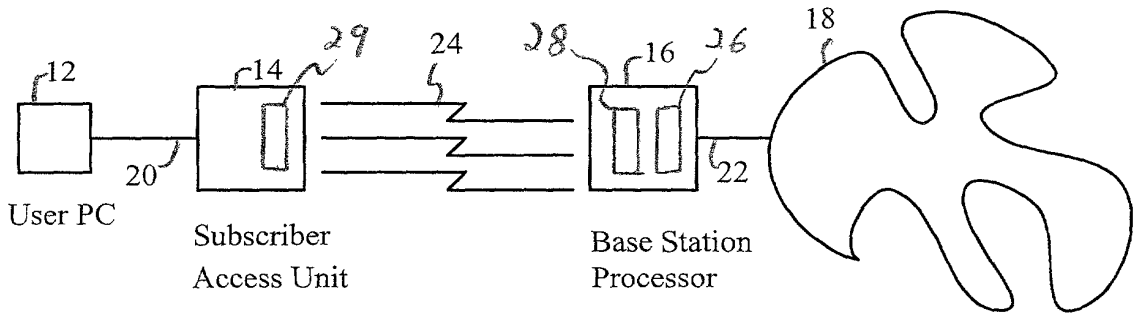


Fig. 1

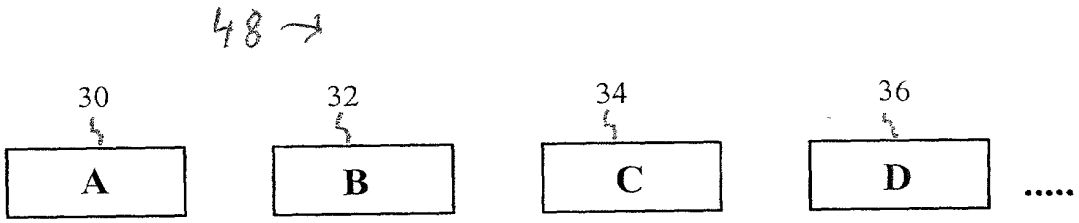


Fig. 2a
Prior Art

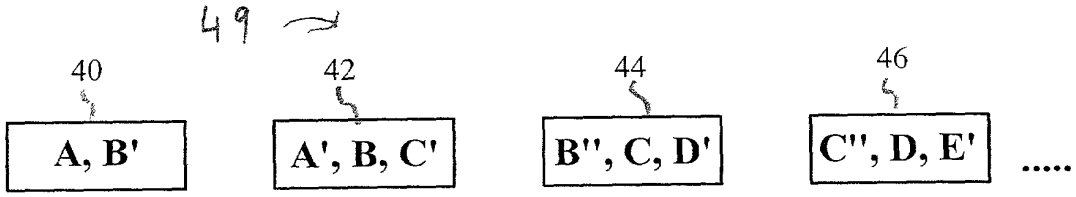


Fig. 2b

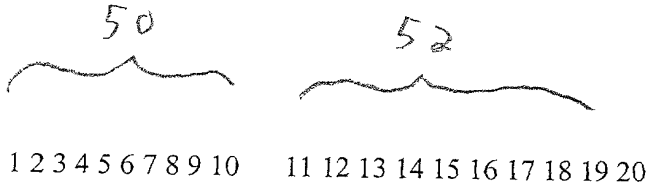


Fig. 3a

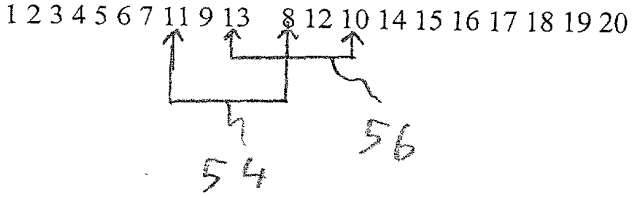


Fig. 3b

58a 60a 62a

Original Packets:				
Packet 1:	Packet 2:	Packet 3:	Packet 4:	Packet 5:
STUVWXYZ	01234567	89ABCDEF	GHIJKLMN	OPQRSTUV

64

Sent Packets:	58b	60b	62b	
Packet 1:	Packet 2:	Packet 3:	Packet 4:	Packet 5:
?T?V0X2Z	W1Y385A7	496BGDIF	CHEJOLQN	KPMR?T?V

66

(Where "?" are codewords from other adjacent packets)

Now if packet 3 is lost the packets would be:

Received Packets:	58c	60c	62c	
Packet 1:	Packet 2:	Packet 3:	Packet 4:	Packet 5:
STUVWXYZ	0123.5.7	8.A.C.E.	.H.JKLMN	OPQRSTUV

68

(Where "." are lost codewords).

Fig. 4

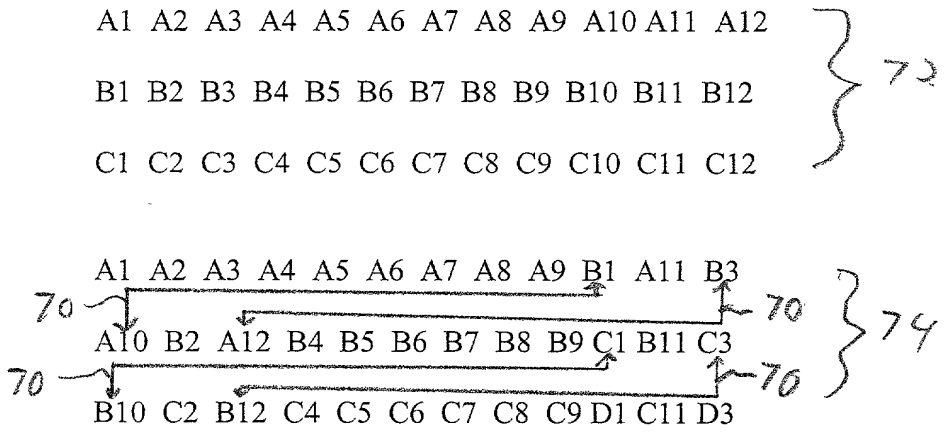


Fig. 5a

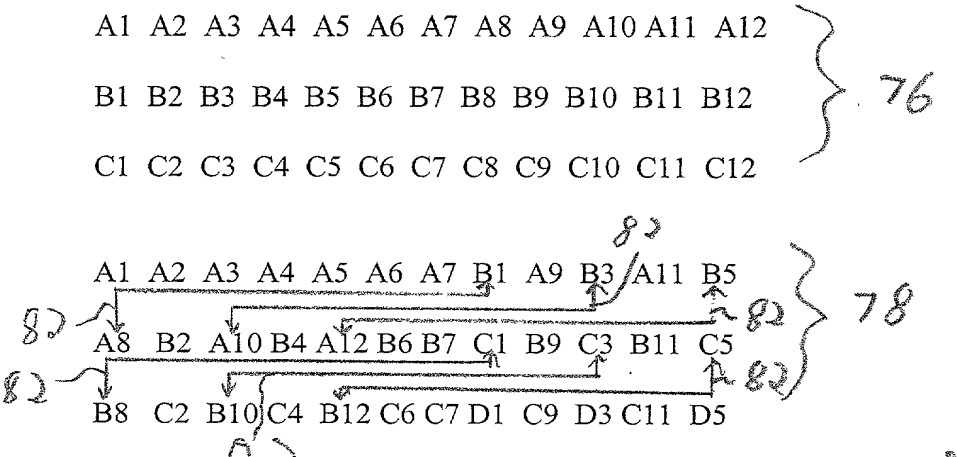


Fig. 5b

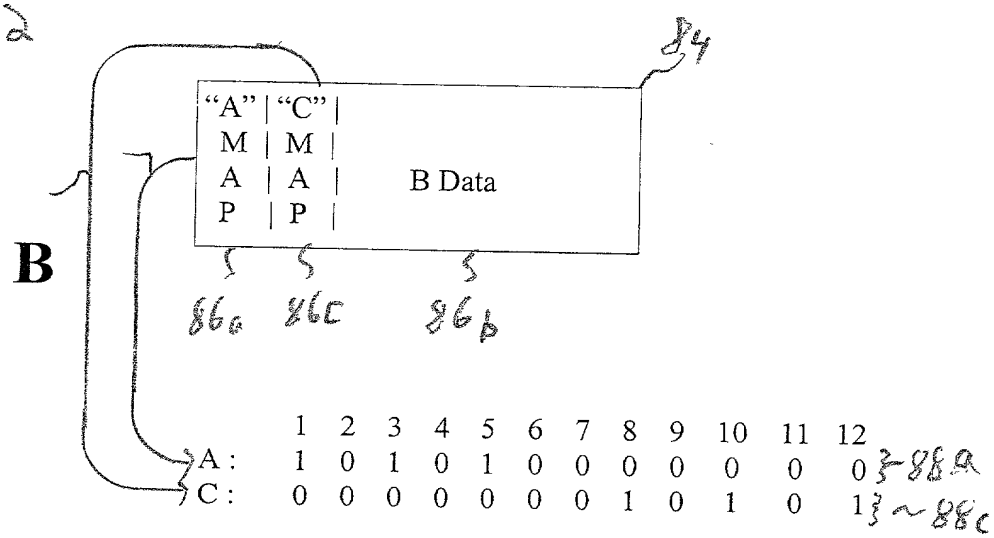


Fig. 6

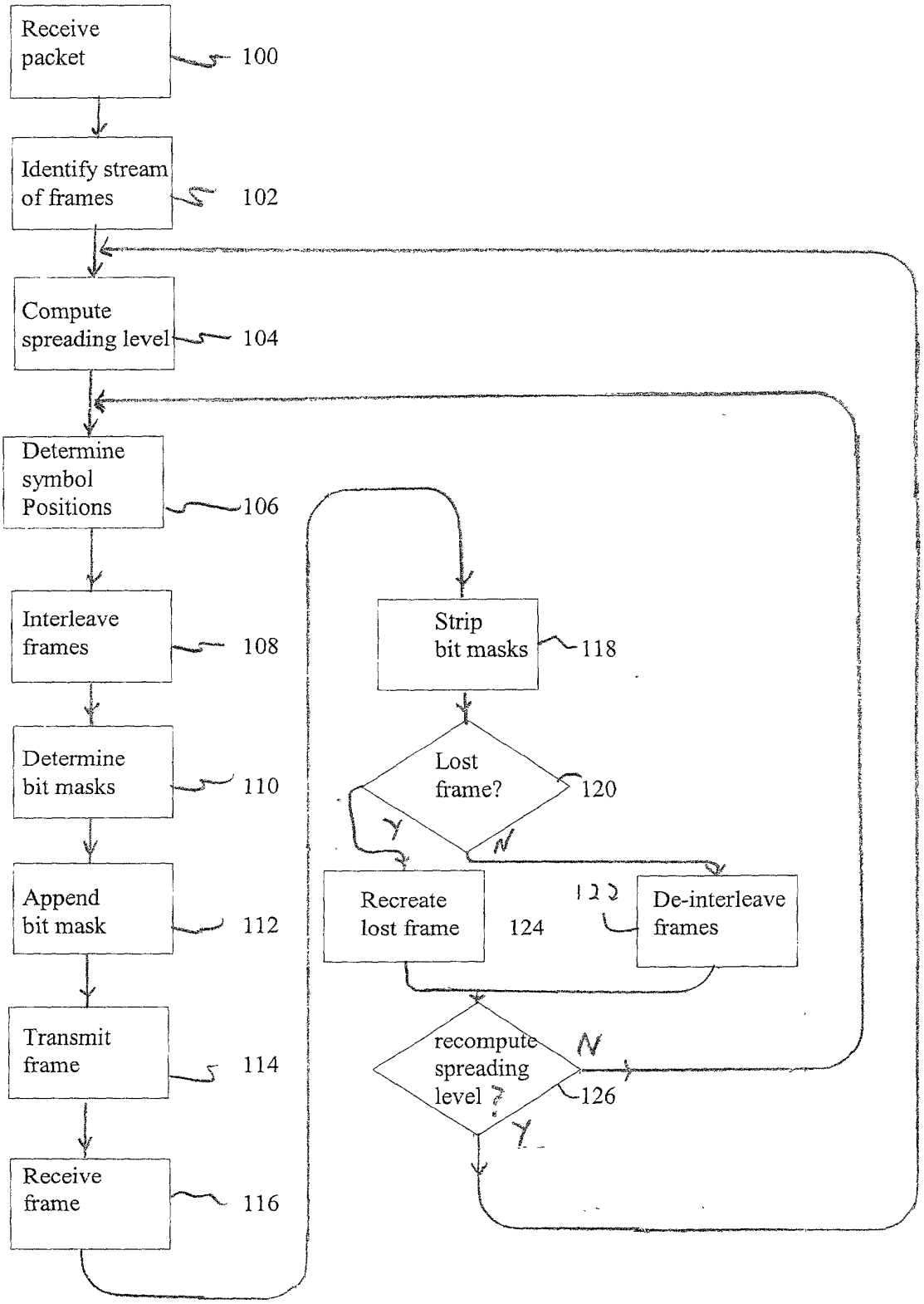

Receive packet
100
Identify stream of frames
102
Compute spreading level
104
Determine symbol Positions
106
Interleave frames
108
Determine bit masks
110
Append bit mask
112
Transmit frame
114
Receive frame
116
Strip bit masks
118
Lost frame?
120
Y
N
Recreate lost frame
124
122
De-interleave frames
recompute spreading level ?
126
N
Y

Fig. 7

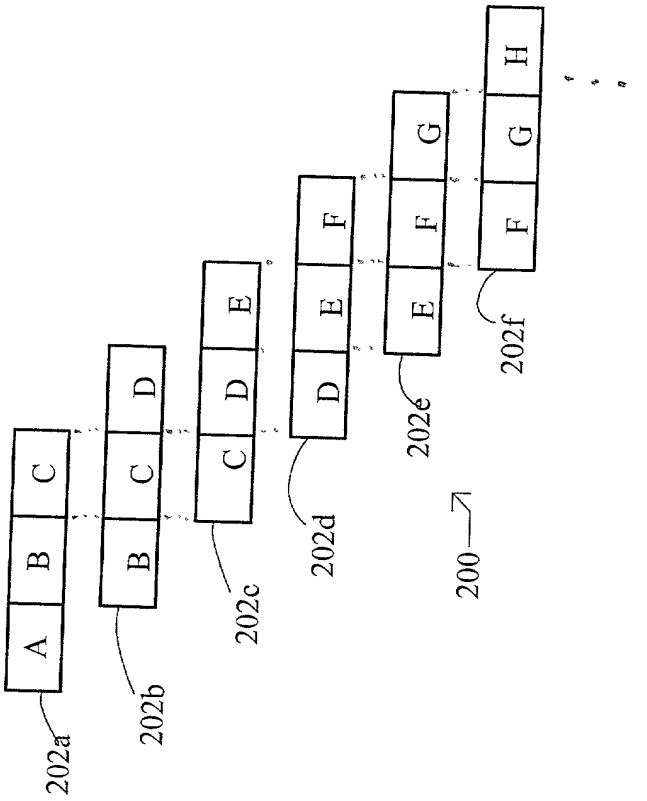
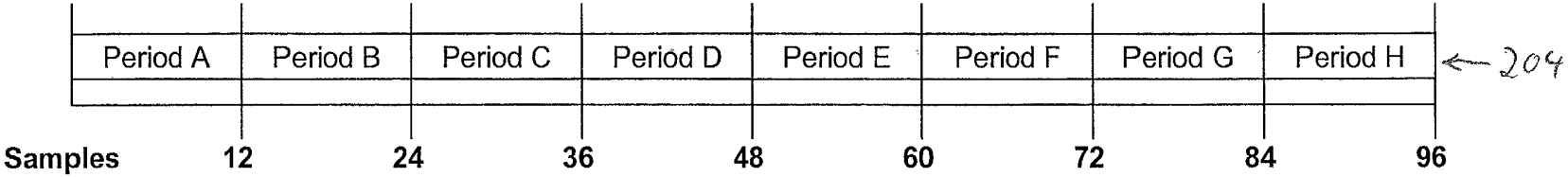


Fig. 8a

T02050 US62/18603

- **Assume audio sampling with 12 samples per period (N = 12)**



- **Assume spreading over 3 frames (M = 3)**
- **Therefore each frame holds N/M = 12/3 = 4 samples from each sample period**

Fig. 8b

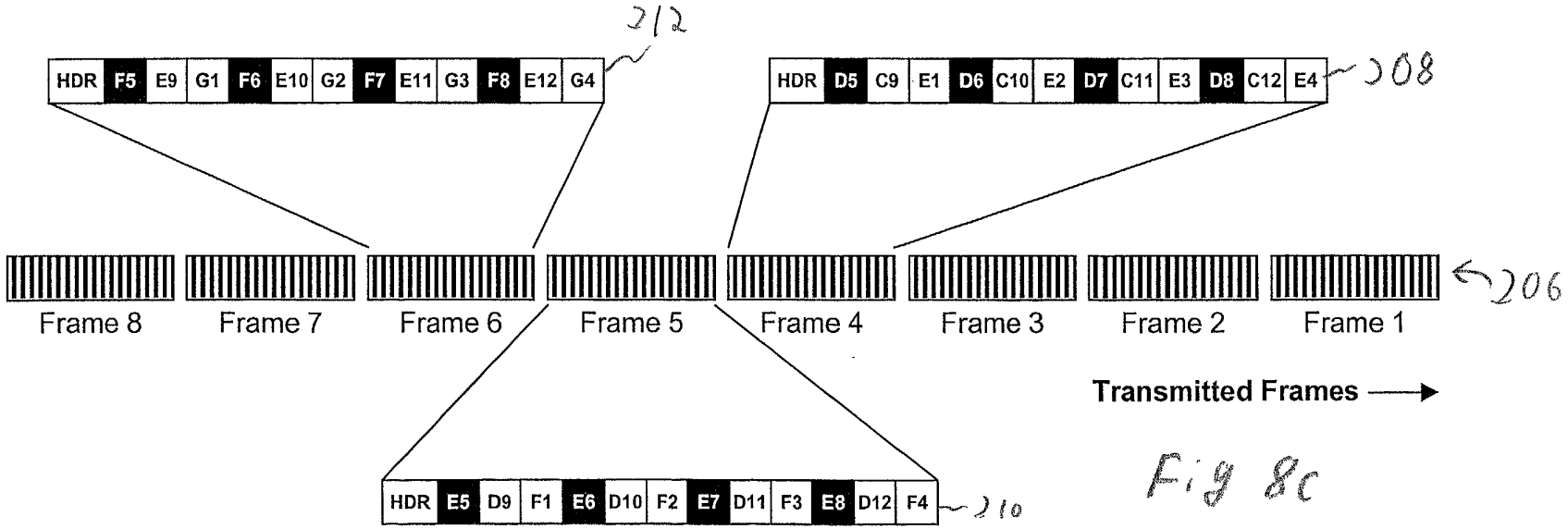


Fig 8c